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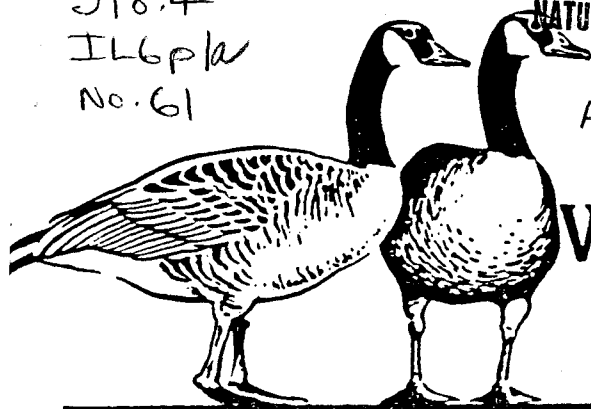
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# WATERFOWL PROGRAM

ILLINOIS DEPARTMENT OF CONSERVATION

DIVISION OF WILDLIFE RESOURCES

ILLINOIS WATERFOWL HARVEST, HUNTER ACTIVITY, AND ATTITUDES TOWARD DUCK SEASON  
DATES, SHOOTING HEN MALLARDS, AND SEPTEMBER GIANT CANADA GOOSE SEASON IN 1987

William L. Anderson, Waterfowl Research Biologist

**Abstract:** Purchasers of the (1986) Illinois Migratory Waterfowl Stamp were sampled via mail-letter questionnaire to obtain information on waterfowl harvest, hunter activity, and attitudes toward selected issues, during the 1987 season (58,803 stamps were sold in 1987). Of 2,751 respondents (73% response), 636 (23%) did not purchase a stamp again in 1987. Thus, the sample size was reduced to 2,115 respondents, 89% of which hunted waterfowl in Illinois in 1987. An estimated 60,371 hunters (2% less than in 1986) expended an estimated 814,918 days afield (8% less than in 1986) and harvested an estimated 354,194 waterfowl (24% less than in 1986). 28% of the hunters owned a dog that they used for waterfowling. During the September teal season, 12,297 hunters spent 32,582 days afield and harvested 32,193 teal (24% less than in 1986). During the regular duck season, 51,704 hunters expended 558,172 days afield and harvested 289,019 ducks (24% less than in 1986) and 2,694 coots. During an experimental September giant Canada goose season in 9 northeastern counties (Region 2), 5,283 hunters spent 15,425 days afield and harvested 1,660 Canada geese. Although the bag limit was 5 geese per day, the 1st and 2nd goose accounted for 96% of the harvest during this early season. During the regular goose season, 32,246 hunters devoted 224,132 days afield to harvest 36,103 Canada geese (21% less than in 1986) and 37,628 total geese. The Canada goose harvest included 18,585 (29% less than quota) taken in the Southern Quota Zone, 4,872 (38% less than quota) taken in the Rend Lake Quota Zone, 3,279 taken in the Tri-county Zone, and 3,361 taken in Region 2. Harvest in the latter (regular and September seasons combined) averaged 558 Canada geese per county, which was 34% greater than the statewide average for all 102 counties in the state. With a bag limit of 2 Canada geese per day during the regular goose season, the 1st goose accounted for 78% of the harvest outside designated goose zones. 85% of the duck hunters expressed reluctance to shoot hen mallards, and 65% felt the dates for the 1987 duck season were too early. For the experimental September giant Canada goose season in Region 2, 57% of the hunters preferred a late 6-day season with a bag limit of 2 geese per day to an early 10-day season with a bag limit of 5 geese per day.

The purpose of this study was to collect information via mail questionnaire from a systematic sample of waterfowl hunters in Illinois following the 1987 hunting season. Data were obtained for waterfowl

harvest, hunter activity, and attitudes of hunters toward selected hunting regulations and other subjects. The questionnaire used for the 1987 season (Fig. 1) was similar to those employed in previous years (Anderson 1983, 1984, 1985, 1986, 1987, and 1988). The mailing list was developed from purchasers of the Illinois Migratory Waterfowl Stamp.

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#### METHODS AND MATERIALS

Methods used to mail the 1987 Illinois Waterfowl Hunting Questionnaire and to process data from returned questionnaires were similar to those employed in previous years (Anderson 1983). The questionnaire and a letter of explanation (Figs. 1 and 2) were mailed to 3,747 purchasers (3,386 residents and 361 non-residents) of the (1986) Illinois Migratory Waterfowl Stamp on 4 January 1988. In addition, 460 persons who indicated on the 1986 questionnaire that they did not purchase a stamp in 1986 (the 1986 mailing list was derived from purchasers of the 1985 stamp) were also sent the 1987 questionnaire. Non-respondents were mailed 2nd and 3rd copies of the questionnaire, and accompanying letters (Figs. 3 and 4), on 18 February and 25 March, respectively. As of 12 May 1988, 2,751 usable questionnaires (excluding those returned by persons on the 1986 mailing list) were returned for a response rate of 73%.

The mailing list for the 1987 questionnaire was developed by systematically selecting stubs from the sales of 45,000 of the (1986) Illinois Migratory Waterfowl Stamps. The stamps are printed with matching (i.e., same I.D. numbers) stubs attached. Vendors are instructed to write each stamp purchaser's name and mailing address on the stub, and to return the stubs to the DOC Permit Office in Springfield. Persons on the mailing list were notified on 16 October 1987 that they would receive a questionnaire at the close of the hunting season. The notice included a form for keeping records of hunting activity and waterfowl harvested (Fig. 5).

Procedures used to estimate numbers of hunters, days afield, waterfowl harvested, cripples lost, and confidence intervals were described in the final report for the 1984 questionnaire (Anderson 1986). The 1987 estimates were based on a sales of 58,803 of the 1987 Illinois Migratory Waterfowl Stamps.

#### SEASON LENGTHS AND BAG LIMITS

The duck hunting regulations employed in 1987 were the same as those used during the 1985 and 1986 seasons, when restrictive regulations were adopted nationwide. The 1987 regulations permitted a 40-day season and a maximum of 5 ducks per day under the Point System (Fig. 6). For mallards, our most harvested species, the regulations allowed a maximum 3 per day. As directed by the FWS, the intent of the restrictive regulations in 1985-1987 was to reduce the nationwide duck harvest to no greater than 75% of what it would have been had stabilized (liberal) regulations continued past 1984. For coots, the 1987 season was concurrent with the duck hunting season, and the daily bag limit was 15 birds. The early teal season was

held on 5-13 September with a daily bag limit of 4 birds. For Canada geese, the season length was 40 days (same as in 1986) for most of the state, and the bag limit was 2 Canada geese per day (1 per day in 1986). In the Tri-County Zone, Canada geese (mostly giants) were hunted for 30 days and the daily bag limit was 1 goose. In the Southern and Rend Lake Quota Zones, the season was 50 days or when 26,300 and 7,900 Canada geese, respectively, were harvested; the daily bag limit was 2 Canada geese in both zones. The FWS approved an experimental early Canada goose season for northeastern Illinois for 1987-1989; it was directed at local giant Canada geese which are excessive in urban areas. As specified by the FWS, this early season was held on 1-10 September, and the bag limit was 5 geese per day.

## FINDINGS

### Characteristics of Respondents

Of the 2,751 respondents to the questionnaire, 636 (23%) did not purchase an Illinois Migratory Waterfowl Stamp again in 1987. Of the 2,115 respondents who did purchase a 1987 stamp, 89% hunted waterfowl in Illinois during the 1987 season, and 28% of the hunters owned a dog that they used for waterfowling.

Of the 460 persons from the 1986 mailing list who were sent the 1987 questionnaire (i.e., those that did not purchase a stamp in 1986), 369 (80%) responded. Of these, 89 (24%) purchased an Illinois Migratory Waterfowl Stamp in 1987, 69% of which hunted waterfowl in Illinois in 1987.

### Waterfowl Harvest and Hunter Activity

An estimated 60,371 waterfowl hunters were active in Illinois during the 1987 season (Table 1). They spent an estimated 814,918 days afield and

harvested an estimated 354,194 waterfowl. These estimates are 2, 8, and 24% less, respectively, than those calculated for the 1986 season.

September Teal Season. An estimated 12,297 hunters attempted to take teal during the September teal season in Illinois in 1987 (Table 2). These hunters spent an estimated 32,550 days afield and harvested an estimated 23,193 teal. The success rate averaged 0.71 teal per day afield and 1.89 teal per hunter. There were more teal hunters (3,334), more days afield (9,152), and more teal harvested (7,421) in Region 3A than in any other region. Region 1B was 2nd in all 3 categories.

Compared to the 1986 season, the teal harvest decreased 19%, teal per day afield decreased 5%, and teal per hunter decreased 4% in 1987 (Table 3). The FWS estimated that 12,900 teal (90% blue-winged and 10% green-winged) were harvested in Illinois during the 9-day season in September 1987, which is 28% less than the FWS estimate for September 1986 (Carney et al. 1988).

Regular Duck Season. An estimated 51,704 individuals hunted ducks during the regular duck season in Illinois in 1987 (Table 4). In 558,172 days afield, these hunters harvested an estimated 289,019 ducks. There were more duck hunters (11,479), more days afield (145,707), and more ducks harvested (81,571) in Region 3A than in any other region. Region 1B was 2nd in all 3 categories. For the entire state in 1987, hunting success was 0.52 duck per day afield and 5.59 ducks per hunter. The duck harvest was 24% less, ducks per day afield 12% less, and ducks per hunter 21% less in 1987 than in 1986 (Table 5).

The 289,019 ducks harvested in Illinois in 1987 included an estimated 155,783 mallards, 58,488 wood ducks, and 74,748 other ducks. In comparison, the FWS estimated that 112,338 mallards, 34,217 wood ducks, 74,626 other ducks, and 221,181 total ducks were harvested during the regular duck season in Illinois in 1987 (Carney et al. 1988). The FWS estimates indicate the duck harvest decreased 20% in Illinois, 8% in the Mississippi Flyway, and 3% in the United States, from 1986 to 1987 (Carney 1988).

Coot Harvest. The coot harvest, most of which is coincidental to duck hunting, was estimated at 2,694 birds in Illinois in 1987, 63% less than the estimated harvest for 1986 (Tables 4 and 5). The FWS estimated the Illinois coot harvest at 1,617 birds for the 1987 season, down 68% from the FWS estimate for 1986 (Carney et al. 1988).

#### September Giant Canada Goose Season.

This experimental 10-day (1-10 September) season, approved by the FWS to exert hunting pressure on giant Canada geese that reside in northeastern Illinois (Region 2), resulted in an estimated harvest of 1,660 Canada geese (Table 6). An estimated 5,283 hunters spent 15,425 days afield during this early season. During a similar experimental season, held on 25-30 September 1986 in the same area, an estimated 3,106 hunters expended 8,824 days afield and harvested 1,677 Canada geese. In 1987, 3 counties (Kane, Lake and McHenry) accounted for  $\geq 50\%$  of the hunting activity and harvest. Based on discriminant analysis of physical measurements ( $n = 11$  adult geese), the 1,660 geese harvested in 1987 were 82% giant (resident) Canada geese and 18% interior (migrant) Canada geese (R.A. Williamson, pers. commun.).



Responses to question #14 indicated that 96% of the Canada geese harvested during September 1987 were taken by hunters who shot 1 or 2 birds per day (Table 7). The 3rd, 4th, and 5th goose, as allowed in the daily bag, contributed little to the total harvest of Canada geese during this experimental early season.

Regular Goose Season. A total of 32,246 goose hunters was estimated to have been active during the regular goose season in Illinois in 1987, and they spent an estimated 224,132 days afield (Table 8). The Southern Quota Zone, located in Region 5, accounted for 59% of the goose hunters and 50% of the days afield. The Rend Lake Quota Zone, also in Region 5, accommodated 15% of the hunters and 11% of the days afield. The Tri-county Zone (in Fulton, Knox, and Henry counties) was responsible for 12% of the hunters and 10% of the days afield. The values for Region 2 were 11% and 9%, respectively.

There was an estimated 37,628 geese harvested during the regular goose season in Illinois in 1987, which included 36,103 Canada geese and 1,525 other geese (Table 8). For Canada geese, the harvest decreased 21% from 1986 to 1987 (Table 9). The total harvest (regular season plus September season) in 1987 included 37,763 Canada geese (20% less than in 1986) and 39,288 (21% less than in 1986) for all species. The FWS estimated that 45,740 Canada geese, 541 other geese, and 46,281 total geese were taken in the state in 1987 (Carney et al. 1987). This is 6% less than the FWS estimate of total goose harvest in 1986 (Carney et al. 1988).

The Canada goose harvest in the Southern Quota Zone was tabulated at 18,585 birds during the 1987 season (D.D. Thornburg pers. commun.). This represents 51% of the statewide harvest of white-cheeked geese during the

regular goose season. In the Rend Lake Quota Zone, an estimated 4,872 Canada geese (13% of the state's total harvest) were taken. This estimate is similar to the projected harvest (i.e., projected from the reported harvest on public hunting areas) of 4,778 Canada geese for the entire Rend Lake Quota Zone (D.D. Thornburg pers. commun.). The Tri-county Zone was credited with a harvest of 3,279 Canada geese or 9% of the state's total. The other 9,367 Canada geese (26% of total) were harvested in the remainder of the state. These birds included an estimated 3,361 Canada geese taken in Region 2, 1,552 taken in Region 3A, and 1,107, taken in Region 1B. Almost one-third (29%) of the Canada geese harvested outside designated goose zones were taken coincidentally to duck hunting (Table 8).

Hunters had an overall success rate of 0.15 goose per day afield and 1.04 geese per hunter during the regular goose season in 1987 (Table 8). This compares to a success of 0.18 goose per day afield and 1.19 geese per hunter in 1986. In the Southern Quota Zone, success was 0.16 and 0.98 goose, respectively, in 1987. Similarly, hunting success was 0.19 and 1.00 goose at Rend Lake, and 0.13 and 0.79 goose in the Tri-county Zone, and 0.11 and 0.69 goose in the remainder of the state.

With a bag limit of 2 Canada geese per day during the regular goose season, the 1st goose accounted for 78% of the harvest outside designated goose zones (Table 10). These data suggest that the harvest of Canada geese outside designated goose zones in Illinois is increased by 28% when the bag limit is increased from 1 to 2 Canada geese per day.

#### Crippling Losses.

Crippling losses were estimated at 98,155 ducks, 18,375 geese, and 2,013 coots in Illinois during the 1987 hunting season (Table 11). These

estimates equate to 34.0 ducks, 48.8 geese, and 74.7 coots lost per 100 harvested. When hunters with dogs are compared to hunters without dogs, the crippling rates were 12% less for ducks, 24% greater for geese, and 60% greater for coots (Table 11). The crippling rates, as reported by all hunters, were higher for ducks and geese in 1986 and 1987 than in previous years (Table 12). With the exception of 1987, nationwide crippling rates have been lower in the 1980's than they were during the early 1970's (Table 13).

#### Attitudes and Opinions of Hunters

Shooting Hen Mallards. Responses to question #9 indicate that 20% of the duck hunters never shoot hen mallards and that 65% shoot hens only occasionally (Table 14). Only 10% of the duck hunters stated that they shoot hen mallards as readily as other species of ducks.

Duck Season Dates. Responses to question #10 suggest that most hunters (65%) believe the dates for the regular duck season in Illinois in 1987 were too early (Table 14). This statement holds for all 3 duck hunting zones and for all 7 administration regions. This attitude was no doubt strongly influenced by the exceedingly mild weather that characterized the 1987 duck season.

Experimental September Giant Canada Goose Season. Responses to question #15 reveal that most hunters (57%) in northeastern Illinois prefer a late 6-day season (September 25-30) with a bag limit of 2 Canada geese per day to an early 10-day season (September 1-10) with a bag limit of 5 Canada geese per day (Table 15). In other words, the hunters place more

importance on having a relatively late season (when weather is cooler and some crops have been harvested) than on having 4 additional days in the season and 3 additional geese in the daily bag limit.

Unsolicited Comments. Respondents to the 1987 questionnaire volunteered 1,024 unsolicited comments. Of these, 297 (29%) dealt with dates for the regular duck and goose hunting seasons; 213 (21%) pertained to duck hunting; 152 (15%) were about waterfowl hunting in general; 97 (9%) were concerned with goose hunting; 96 (9%) related to public hunting areas; 90 (9%) were directed to steel shot and/or lead poisoning; 48 (5%) were attitudes toward the September giant Canada goose season in northeastern Illinois; and 31 (3%) expressed opinions of the September teal season.

Of the 297 comments dealing with season dates, 97% were to the effect that the duck and/or goose seasons should be later; 2% believed the dates were about right; and 1% thought they should be earlier.

Of the 213 comments pertaining to the duck season, 21% advocated a split season; 16% said they had a poor season; 13% were arguments for a longer season; 9% proposed closing the season; 8% believed mallard hens should be totally protected; 6% wanted to increase the daily bag limit; 5% felt that shooting time should begin at sunrise; 5% expressed dissatisfaction with the boundaries for the 3 zones; and 17% dealt with 14 miscellaneous subjects.

Regarding the 152 comments about waterfowl hunting in general, 22% were complimentary to the DOC's waterfowl management efforts; 20% expressed the need for additional law enforcement; 14% were complaints that waterfowl hunting was expensive; 11% were requests for making information more

readily available; 8% were concerns about protecting waterfowl habitat; 7% felt that the Illinois Waterfowl Hunting Questionnaire was a good idea; and 18% addressed 22 miscellaneous subjects.

Of the 97 comments concerned with goose hunting, 21% expressed opinions that the season in the Southern Quota Zone should be extended, if necessary, to achieve the harvest quota for Canada geese; 20% stated they had a poor season; 11% complained that "skybusting" was excessive; 8% wanted a longer season; 7% advocated a split season; 7% believed the bag limit in the Tri-county Zone should be increased to 2 Canada geese per day; and 26% addressed 15 miscellaneous subjects.

With regards to the 96 comments relating to public hunting areas, 13% argued for more areas, especially in northern Illinois; 13% felt that too much food was available on the goose refuges in the Southern Quota Zone; 6% said that Carlyle Lake was well managed; 6% felt that hunter supervision should be increased at Carlyle; 4% believed that all blinds should be built with dog runs; and 58% dealt with 52 other subjects and/or areas.

Of the 78 comments directed at steel shot or lead poisoning, 69% were complaints about steel shot (primarily that it was ineffective) and/or nontoxic shot regulations; 22% were supportive of and/or positive to steel shot; 7% felt that the lead poisoning was not a problem for waterfowl and/or bald eagles; and 2% expressed the need for additional information and education.

Of the 48 comments regarding the September giant Canada goose season in northeastern Illinois, 29% complained that the geese were not on accessible and/or huntable areas; 27% were supportive of the season; 23% believed the season should be later; 13% were negative to the season; 6% stated that the season was poorly advertised; and 2% wanted the season to be longer.

As for the 31 comments about the September teal season, 61% advocated discontinuing the season; 26% wanted to allow harvesting other species of ducks; 10% believed the season should be later; and 3% believed the season should be earlier.

## DISCUSSION

Members of the waterfowl hunting community in Illinois appear to be a very dynamic group with a high annual turnover. Based on responses to the 1984, 1986, and 1987 questionnaires, an average of 22% (20.6-23.1%) of the purchasers of the Illinois Migratory Waterfowl Stamp do not buy stamps 2 years in succession. And, of those who do not purchase a stamp the 2nd year, only 25% (5.5% of total) resume the practice the 3rd year. These findings suggest that as much as 16.5% of the members of the waterfowl hunting community are "new" every year.

The duck season in Illinois, and in all other states in the Mississippi Flyway, was reduced from 50 days in 1984 to 40 days in 1985, 1986, and 1987. Similarly, the daily bag limit, as determined by the Point System, was reduced from a maximum of 10 ducks (including 4 mallards) to a maximum of 5 ducks (including 3 mallards). The intent of the restrictive regulations in 1985-1987 was to reduce the nationwide harvests of mallards and of total ducks by at least 25% of what the harvests would have been had stabilized (liberal) regulations continued past 1984. The present study suggests that the harvests decreased 15% for mallards and 19% for total ducks in Illinois, 1987 versus 1984 (Table 5). According to FWS harvest surveys (Carney et al. 1986 and 1988), the 1987 harvests (versus 1984) were reduced by 26% for mallards and 31% for total ducks in Illinois, by 18% for mallards and 34% for total ducks in the Mississippi Flyway, and

by 18% for mallards and 27% for total ducks in the entire nation. Thus, the objective to reduce the harvests by 25% was probably achieved for total ducks in Illinois, Mississippi Flyway and, the entire nation. However, the reduction was not achieved for mallards. Unlike 1985 and 1986, the 1987 duck harvest was curtailed as much in Illinois as in most other states in the Mississippi Flyway.

The harvest of Canada geese decreased by 9,432 birds during the regular goose season in 1987 (Table 9). For individual zones, the harvest decreased by 7,272 (28%) Canada geese in the Southern Quota Zone, by 785 (14%) Canada geese in the Rend Lake Quota Zone, and by 1,368 (29%) Canada geese in the Tri-county Zone. The harvests in the Southern and Rend Lake quota zones were, respectively, 7,715 (29%) and 3,028 (38%) Canada geese fewer than the maximum allowed via the quota system.

The harvest of Canada geese in northeastern Illinois (Region 2) increased by 37% (from 2,448 to 3,361) during the regular goose season in 1987, for an average of 373 geese per county. When the 1,660 geese taken during the 10-day experimental September giant Canada goose season are included, the harvest in northeastern Illinois totals 5,021 Canada geese or an average of 558 geese per county. This is 34% greater than the statewide average of 370 Canada geese per county in 1987.

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Table 1. Summary of Illinois Migratory Waterfowl Stamps purchased, hunter activity, and waterfowl harvest in Illinois from 1981 through 1987.

Year	Stamps Purchased	Hunters	Days Afield	Waterfowl Harvested <sup>a</sup>
1981	61,929	63,652	874,730	408,314
1982	57,691	58,766	795,807	386,992
1983	56,162	58,240	815,523	465,128
1984	55,250	56,533	748,390	412,655
1985	55,670	56,899	699,113	392,253
1986	59,734	61,876	887,446	468,841
1987	58,803 <sup>b</sup>	60,371	814,918	354,194

<sup>a</sup> Teal, ducks, coots, and geese.

<sup>b</sup> Excludes 5,550 stamps purchased by a commercial art company.

Table 2. Teal harvest and hunter activity, by administrative regions, during the September teal season in Illinois in 1987. (n = 2,115).

Administrative Region <sup>a</sup>	Hunters		Days Afield		Teal		
	Number	Percent <sup>b</sup>	Number	Per Hunter	Number	Per Day Afield	Per Hunter
1A	912		2,610	2.86	2,111	0.81	2.32
1B	3,019		7,862	2.60	5,814	0.74	1.93
2	1,667		4,749	2.85	2,490	0.52	1.49
3A	3,334		9,152	2.75	7,421	0.81	2.25
3B	535		1,289	2.41	551	0.43	1.03
4	912		2,076	2.28	1,985	0.96	2.18
5	1,541		4,026	2.61	2,143	0.53	1.39
Unknown	377		786		678		
Entire State	12,297	20.4	32,550	2.65	23,193 <sup>c</sup>	0.71	1.89

<sup>a</sup> See Fig. 7.

<sup>b</sup> Percent of all waterfowl hunters.

<sup>c</sup> The 95% confidence interval is  $\pm 3,095$ .

Table 3. Summary of teal harvest and hunter activity during the September teal season in Illinois in 1981 through 1987.

Year	Hunters	Days Afield	Number of Teal
1981	14,802	38,586	22,946
1982	14,863	41,856	28,785
1983	13,295	39,475	29,355
1984	14,158	39,481	32,730
1985	13,852	36,521	29,260
1986	15,449	40,241	30,375
1987	12,297	32,582	23,193

Table 4. Duck and coot harvest and hunter activity, by administrative regions, during the regular duck season in Illinois in 1987 (n = 2,115).

Administrative Region <sup>a</sup>	Hunters		Days Afield		Ducks			
	Number	Percent <sup>b</sup>	Number	Per Hunter	Number	Per Day Afield	Per Hunter	Number of Coots
1A	3,837		42,017	10.95	20,861	0.50	5.44	16
1B	12,328		142,436	11.55	77,852	0.55	6.32	567
2	9,026		83,028	9.20	32,364	0.39	3.59	599
3A	11,479		145,707	12.69	81,571	0.56	7.11	488
3B	2,610		23,147	8.87	9,470	0.41	3.63	236
4	3,491		38,778	11.11	22,815	0.59	6.54	47
5	8,586		81,109	9.45	43,078	0.53	5.02	709
Unknown	347		1,950		1,008			32
Entire State	51,704	85.6	558,172	10.80	289,019 <sup>c, d</sup>	0.52	5.59	2,694 <sup>e</sup>

<sup>a</sup> See Fig. 7.

<sup>b</sup> Percent of all waterfowl hunters.

<sup>c</sup> The 95% confidence interval is  $\pm 16,380$ .

<sup>d</sup> Includes 155,783 mallards, 58,488 wood ducks, and 74,748 other ducks.

<sup>e</sup> The 95% confidence interval is  $\pm 975$ .

Table 5. Summary of duck and coot harvest and hunter activity during the regular duck season in Illinois in 1981 through 1987.

Year	Hunters	Days Afield	Number of Ducks				Number of Coots
			Mallards	Wood Ducks	Other Ducks	Total	
1981	54,744	703,534	170,972	72,065	94,947	337,984	4,950
1982	52,220	646,394	163,439	61,706	101,989	327,134	5,905
1983	50,440	651,409	220,317	72,237	110,862	403,416	10,472
1984	49,715	606,325	182,132	52,955	120,016	355,103	7,702
1985	51,362	556,800	168,549	51,216	97,155	316,920	5,773
1986	53,588	638,090	201,676	65,414	112,490	379,580	7,372
1987	51,704	558,172	155,783	58,488	74,748	289,019	2,694

Table 6. Canada goose harvest and hunter activity, by county, during the experimental September giant Canada goose season in north-eastern <sup>a</sup> Illinois in 1987.

County	Hunters	Days Afield	Canada Geese
Cook	194	389	0
DuPage	356	1,134	270
Grundy	519	1,685	148
Kane	713	2,431	283
Kankakee	162	356	0
Kendall	0	0	0
Lake	1,491	4,537	364
McHenry	1,167	3,014	405
Will	551	1,685	148
Unknown	130	194	42
Totals	5,283	15,425	1,660

<sup>a</sup> See Fig. 7.

Table 7. The contribution that the 1st, 2nd, 3rd, 4th, and 5th goose in the daily bag made to the harvest of Canada geese during the experimental September giant Canada goose season in northeastern Illinois in 1987. <sup>a</sup>

	Daily Bag				
	1 Goose	2 Geese	3 Geese	4 Geese	5 Geese
Occurrence	35	23	1	0	1
(n = 60 daily bags)	(58%)	(38%)	(2%)	(0%)	(2%)
	Goose				
	1st	2nd	3rd	4th	5th
Contribution:	35				
(n = 89 geese)	23	23			
	1	1	1		
	0	0	0	0	
	1	1	1	1	1
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	60	25	2	1	1
	(68%)	(28%)	(2%)	(1%)	(1%)

<sup>a</sup> Based on responses to question #14 (see Fig. 1).

Table 8. Goose harvest and hunter activity, by zones and administrative regions, during the regular goose season in Illinois in 1987 (n = 2,115).

Zone or Administrative Region <sup>a</sup>	Hunters		Days Afield		Geese			
	Number	Percent <sup>b</sup>	Number	Per Hunter	Canada Geese	Other Geese	Total Geese	Per Day Afield <sup>c</sup> Per Hunter
Southern Quota Zone	18,959		112,973	5.96	18,585 (351)	310 (13)	18,895 (364)	0.16 0.98
Rend Lake Quota Zone	4,861		25,505	5.25	4,872 (81)	81 (13)	4,953 (94)	0.19 1.00
Tri-county Zone	3,824		22,815	5.97	3,279 (405)	162 (0)	3,441 (405)	0.13 0.79
Remainder of State								
1A	1,523		10,241		1,336 (283)	41 (0)	1,377 (283)	
1B	1,361		7,162		1,107 (540)	256 (162)	1,363 (702)	
2	3,403		19,607		3,361 (946)	27 (13)	3,388 (959)	
3A	1,264		11,634		1,552 (594)	432 (204)	1,984 (798)	
3B	648		3,338		418 (310)	81 (40)	499 (350)	
4	810		4,764		918 (40)	81 (54)	999 (94)	
5 <sup>c</sup>	1,296		6,093		675 (13)	54 (0)	729 (13)	
Total	10,305		62,839	6.10	9,367 (2,726)	972 (473)	10,339 (3,199)	0.11 0.69
Entire State	32,246	53.4	224,132	6.95	36,103 (3,563)	1,525 (499)	37,628 <sup>f</sup> (4,062)	0.15 1.04

<sup>a</sup> See Fig. 7.

<sup>b</sup> Percent of waterfowl hunters.

<sup>c</sup> Excludes geese harvested coincidentally to duck hunting.

<sup>d</sup> Number of geese harvested coincidentally to duck hunting.

<sup>e</sup> Excluding Southern Quota Zone and Rend Lake Quota Zone.

<sup>f</sup> The 95% confidence interval is  $\pm 4,510$ .



Table 9. Summary of goose harvest and hunter activity during the regular goose season in Illinois in 1981 through 1987.

Year	Hunters	Days Afield	Number of Geese		
			Canada Geese	Other Geese	Total
1981	23,610	132,610	44,302(6,312) <sup>a</sup>	3,082(1,719)	47,384(8,031)
1982	24,058	107,557	29,574(4,968)	1,499( 710)	31,073(5,678)
1983	26,199	124,639	31,395(4,325)	962( 577)	32,357(4,902)
1984	22,426	102,583	23,147(2,859)	1,675( 593)	24,822(3,452)
1985	22,160	105,792	37,976(5,248)	2,324( 753)	40,300(6,001)
1986	30,327	200,291	45,535(11,348)	2,625( 832)	48,160(12,180)
1987	32,246	224,164	36,103(3,563)	1,525( 499)	37,628(4,062)

<sup>a</sup> Number of geese harvested coincidentally to duck hunting.

Table 10. The contribution that the 1st and 2nd goose in the daily bag made to the harvest of Canada geese outside designated goose zones <sup>a</sup> during the regular goose season in Illinois in 1987.

	Daily Bag	
	1 Goose	2 Geese
Occurrence: (n = 321 daily bags)	232 (72%)	89 (28%)

	Goose	
	1st	2nd
Contribution: (n = 410 geese)	232 89	89
	<u>321</u> (78%)	<u>89</u> (22%)

<sup>a</sup> Excludes the Southern Quota Zone, Rend Lake Quota Zone, Tri-county Zone, and the experimental September giant Canada goose season in northeastern Illinois.

Table 11. Number of waterfowl that were crippled (knocked down but not retrieved) during the hunting seasons in Illinois in 1987 (n = 2,115).

Species	Cripples Lost	
	Number	Per 100 Birds Bagged
HUNTERS WITH DOGS (n = 524)		
Ducks <sup>a</sup>	38,180	31.6
Geese	8,329	55.3
Coots	471	119.7
HUNTERS WITHOUT DOGS (n = 1,365)		
Ducks <sup>a</sup>	59,975	35.7
Geese	10,046	44.5
Coots	1,542	67.0
ALL HUNTERS (n = 1,889)		
Ducks <sup>a</sup>	98,155 ± 8,308 <sup>b</sup>	34.0
Geese	18,375 ± 3,311	48.8
Coots	2,013 ± 770	74.7

<sup>a</sup> Regular duck season.

<sup>b</sup> 95% confidence interval.

Table 12. Summary of the number of ducks, geese, and coots that were crippled (knocked down but not retrieved) during the hunting seasons in Illinois in 1981-1987.

Year	Ducks		Geese		Coots	
	Total	Per 100 Bagged	Total	Per 100 Bagged	Total	Per 100 Bagged
1981	104,216	30.8	12,573	26.5	1,717	34.7
1982	82,287	25.2	5,868	18.9	1,595	27.0
1983	96,907	24.0	7,627	23.6	2,947	28.1
1984	84,665	23.8	5,711	23.0	3,236	42.0
1985	100,191	31.6	15,918	39.5	2,357	40.8
1986	145,283	38.3	20,699	41.5	2,770	37.6
1987	98,155	34.0	18,375	48.8	2,013	74.7

Table 13. Summary of the number of waterfowl that were crippled (knocked down but not retrieved) per 100 birds retrieved during the hunting seasons in the United States in 1971-1986. Data from U.S. Fish and Wildlife Service, Office of Migratory Bird Management, Administrative Reports, 1973-1988.

Year	Ducks	Geese	Coots	All Species
1971	22.1	15.4	28.2	22.2
1972	22.4	15.5	29.6	22.3
1973	21.9	14.8	29.2	21.4
1974	21.5	14.3	29.1	21.2
1975	20.3	13.0	28.9	20.1
1976	19.4	14.2	26.8	19.3
1977	20.5	14.9	28.9	20.1
1978	20.2	15.7	29.0	20.1
1979	20.3	14.3	27.1	20.0
1980	19.2	12.9	30.9	18.8
1981	19.4	13.2	22.7	18.7
1982	19.2	15.2	27.7	18.9
1983	19.4	14.4	23.7	18.9
1984	19.5	14.2	30.4	19.1
1985	19.7	14.0	24.3	19.0
1986	20.1	15.7	32.5	20.3
1987	24.5	20.5	27.5	24.0

Table 14. Attitudes of hunters toward shooting hen mallards and the dates for the regular duck season in Illinois in 1987. Sample sizes are in parentheses.

\*Responses to the question, "What is your personal attitude toward shooting hen mallards in Illinois?"

	(1,639) a
I never shoot hen mallards	19.8%
I occasionally shoot hen mallards	64.6%
I shoot hen mallards just as readily as other ducks	9.7%
I prefer shooting hen mallards to other ducks	0.1%
I shoot hen mallards only	0.0%
No opinion	5.8%

\*Responses to the question, "The dates for the regular duck season in Illinois in 1987 were October 14-November 22 (North Zone), October 22-November 30 (Central Zone), and October 29-December 7 (South Zone). What is your opinion of the dates for the county in which you hunted most?"

Responses by Duck Hunting Zones

	<u>North</u> (334) a	<u>Central</u> (928)	<u>South</u> (352)	<u>Entire State</u> (1,614)
Too early	53.3%	66.6%	73.3%	65.3%
Too late	5.4%	4.5%	3.4%	4.5%
About right	37.1%	26.2%	21.9%	27.5%
No opinion	4.2%	2.7%	1.4%	2.7%

Responses by Administrative Regions

	<u>1A</u> (120) a	<u>1B</u> (382)	<u>2</u> (280)	<u>3A</u> (360)	<u>3B</u> (82)	<u>4</u> (111)	<u>5</u> (269)
Too early	55.0%	57.6%	58.6%	73.3%	69.5%	70.3%	74.3%
Too late	5.0%	4.7%	5.7%	3.1%	8.5%	4.5%	3.0%
About right	37.5%	34.0%	30.7%	21.7%	20.7%	25.2%	21.2%
No opinion	2.5%	3.7%	5.0%	1.9%	1.3%	0.0%	1.5%

a Respondents who hunted  $\geq 1$  days during the regular duck season in Illinois in 1987.

Table 15. Attitudes of hunters toward dates, season length, and bag limit for the experimental September giant Canada Goose season in northeastern Illinois (Cook, DuPage, Grundy, Kane, Kankakee, Kendall, Lake, McHenry, and Will counties).

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\*Responses to the question, "If the September giant Canada goose season in northeastern Illinois is conducted again in 1988 , which would you prefer an early 10-day season with a bag limit of 5 Canada geese per day or a late 6-day season with a bag limit of 2 Canada geese per day?"

	(n = 247) <sup>a</sup>
Early 10-day season (September 1-10) with 5 Canada geese per day	32.0%
Late 6-day season (September 25-30) with 2 Canada geese per day	57.1%
No opinion	10.9%

---

<sup>a</sup> Respondents who reside in northeastern Illinois.

# 1987 ILLINOIS WATERFOWL HUNTING QUESTIONNAIRE

## INSTRUCTIONS

Please fill out the questionnaire on the following pages for your waterfowl hunting activities during the 1987 season.

If you did not hunt waterfowl in Illinois in 1987, answer the first two questions and return this form.

The questionnaire is divided into five parts: General Information, September Teal Season, Regular Duck Season, September Giant Canada Goose Season in Northeastern Illinois, and Regular Goose Season.

Report only your kill. DO NOT report the kill of others with whom you may have hunted.

Write in the number of days on which you hunted ducks and the number of days on which you hunted geese. Include your unsuccessful days.

If you hunted both ducks and geese at the same time, count the day toward your primary target -- that is, primarily ducks or primarily geese. DO NOT count the hunt as a day of duck hunting and also as a day of goose hunting.

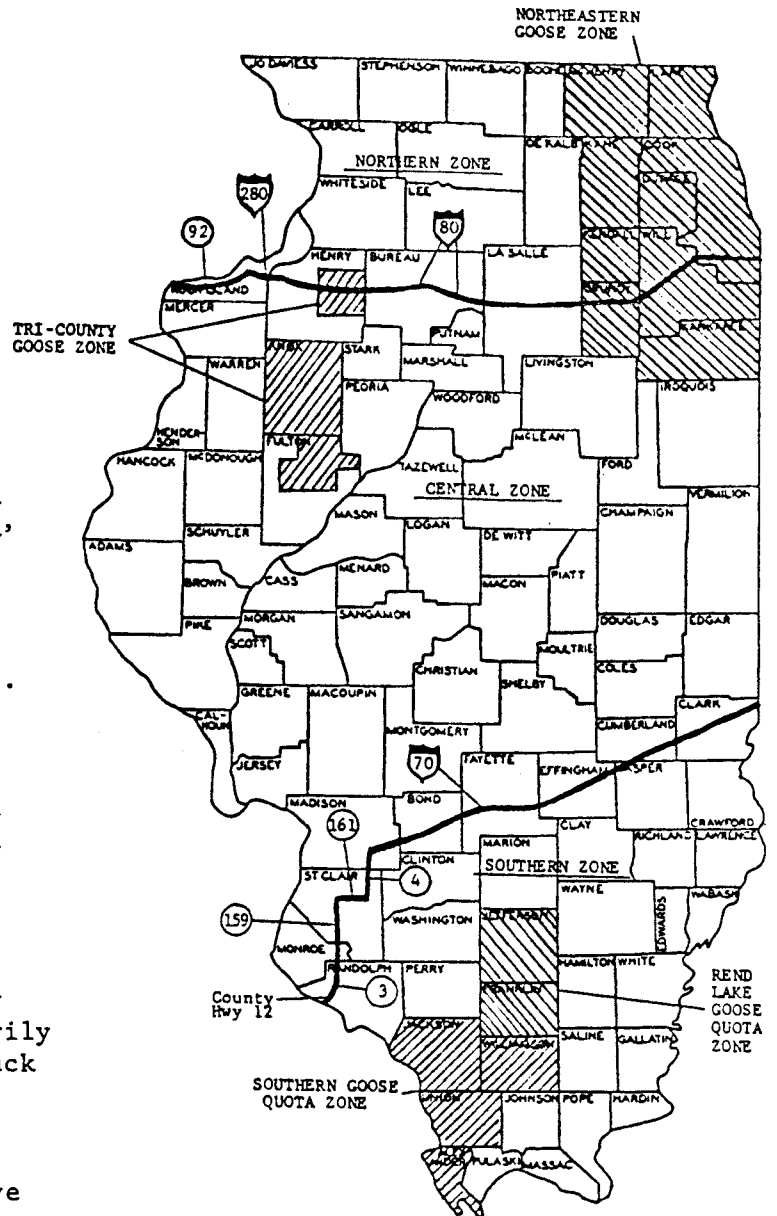
If you can't remember the exact figures, give your best estimate.

When completed, insert questionnaire into the self-addressed envelope and mail. Postage is prepaid.

Thank you for your cooperation

POSTAGE IS PREPAID

Figure 1. The 1987 Illinois Waterfowl Hunting Questionnaire.



Your comments are welcome  
but please write them on  
the separate paper provided  
to receive proper attention

POSTAGE IS PREPAID

Figure 1 - continued.



1987 ILLINOIS WATERFOWL HUNTING QUESTIONNAIRE  
(see instructions on first page)

Numbers at right are for official use only
--

GENERAL INFORMATION

1. How many 1987 Illinois Migratory Waterfowl Stamps did you purchase for your personal use? . . . . . \_\_\_\_\_ 9-10
2. Did you hunt waterfowl in Illinois during the 1987 season?  
(circle number for appropriate answer)      Yes.....1      No.....2      11
3. Do you own a dog that you used for waterfowl hunting in Illinois in 1987? (circle number for appropriate answer)      Yes.....1      No.....2      12

SEPTEMBER TEAL SEASON

4. How many different days did you hunt teal during the September teal season in Illinois in 1987?. . . . . \_\_\_\_\_ 13
5. How many teal did you personally harvest during the September teal season in Illinois in 1987?. . . . . \_\_\_\_\_ 14-15

REGULAR DUCK SEASON

6. How many different days did you hunt ducks during the regular duck season in Illinois in 1987?. . . . . \_\_\_\_\_ 16-17
7. In which county did you hunt ducks most during the regular duck season in Illinois in 1987?. . . . . Name of county \_\_\_\_\_ 18-20
8. List the number of ducks and coots you personally harvested during the regular duck season in Illinois in 1987. DO NOT include teal killed during the September teal season or birds killed in other states or countries.

I personally killed and retrieved:		I knocked down in sight but could not retrieve:	
Mallards _____			21-23
Wood Ducks _____		Ducks _____	24-26      33-35
Other Ducks _____			27-29
Coots _____		Coots _____	30-32      36-38

9. What is your personal attitude toward shooting hen mallards in Illinois?  
(circle number for most appropriate answer)

- |   |   |    |
|---|---|----|
| *I never shoot hen mallards . . . . .                         | 1 |    |
| *I occasionally shoot hen mallards. . . . .                   | 2 |    |
| *I shoot hen mallards just as readily as other ducks. . . . . | 3 | 39 |
| *I prefer shooting hen mallards to other ducks. . . . .       | 4 |    |
| *I shoot hen mallards only. . . . .                           | 5 |    |
| *No opinion . . . . .   | 6 |    |

(continued on following page)

10. The dates for the regular duck season in Illinois in 1987 were October 14-November 22 (North Zone), October 22-November 30 (Central Zone), and October 29-December 7 (South Zone). What is your opinion of the dates for the county in which you hunted most? (circle number for appropriate answer)

Too early...1      Too late...2      About right...3      No opinion...4      40

#### SEPTEMBER GIANT CANADA GOOSE SEASON IN NORTHEASTERN ILLINOIS

NOTE: This was a special experimental season that took place on September 1-10 in the following 9 counties only: Cook, DuPage, Grundy, Kane, Kankakee, Kendall, Lake, McHenry, and Will (see map).

NOTE: To report your goose hunting activities during the REGULAR GOOSE SEASON in Illinois in 1987, use Question #16 below.

11. How many different days did you hunt Canada geese during the September giant Canada goose season in northeastern Illinois in 1987?. . . \_\_\_\_\_ 41-42
12. In which county did you hunt Canada geese most during the September giant Canada goose season in northeastern Illinois in 1987?. .County \_\_\_\_\_ 43-44
13. How many Canada geese did you personally harvest during the September giant Canada goose season in northeastern Illinois in 1987?. . . \_\_\_\_\_ 45-46
14. If you harvested 1 or more Canada geese during the September giant Canada goose season in northeastern Illinois in 1987, on how many different days did you take:    1 Goose    2 Geese    3 Geese    4 Geese    5 Geese  
Number of days:    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_ 47-56
15. If the September giant Canada goose season in northeastern Illinois is conducted again in 1988, which would you prefer an early 10-day season with a bag limit of 5 Canada geese per day or a late 6-day season with a bag limit of 2 Canada geese per day? (circle number for appropriate answer)
- \*Early 10-day season (September 1-10) with 5 Canada geese per day. . 1  
\*Late 6-day season (September 25-30) with 2 Canada geese per day . . 2      57  
\*No opinion. . . . . 3

#### REGULAR GOOSE SEASON

16. List the number of days you hunted geese and the number of geese you personally harvested during the regular goose season in Illinois in 1987. DO NOT include Canada geese killed during the September giant Canada goose season in northeastern Illinois. NOTE: If the geese were killed coincidental to your duck hunting, leave the number of days blank.

	<u>Days</u>	<u>Canada Geese</u>	<u>Other Geese</u>	
*In Southern Quota Zone (see map).....	_____	_____	_____	58-63
*In Rend Lake Quota Zone (see map)....	_____	_____	_____	64-69
*In Tri-County Zone (in Fulton, Knox, and Henry counties, see map).....	_____	_____	_____	70-75
*Other areas (write in name of each county): a. _____	_____	_____	_____	76-84
b. _____	_____	_____	_____	85-93
c. _____	_____	_____	_____	94-102

17. If you reported harvesting 1 or more Canada geese in "Other areas," on  
how many different days did you take: 1 Canada Goose 2 Canada Geese  
Number of days: \_\_\_\_\_ 103-106
18. How many geese did you knock down in sight but neither you nor anyone  
else could retrieve? . . . . . \_\_\_\_\_ 107-109

Thank you for your cooperation

POSTAGE IS PREPAID

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1987 ILLINOIS WATERFOWL HUNTING QUESTIONNAIRE  
(see instructions on first page)

Illinois



Department of Conservation

life and land together

LINCOLN TOWER PLAZA • 524 SOUTH SECOND STREET • SPRINGFIELD 62701-1787  
CHICAGO OFFICE • ROOM 4-300 • 100 WEST RANDOLPH 60601  
MARK FRECH, DIRECTOR

Dear Fellow Sportsman:

You are one of a select group of Illinoisans asked to furnish information on your waterfowl hunting activities during the past hunting season.

The information supplied by you and other selected hunters is vital to the management of our waterfowl resources: (1) to safeguard waterfowl populations, (2) to grant maximum waterfowl hunting opportunity to license holders, and (3) to maintain an attractive level of hunter success.

The information you provide is used to better understand the welfare of the various waterfowl populations. These statistics include distribution of total harvest, number of hunters, and hunting success.

Your reply is very important, even if you did not hunt waterfowl or were not successful. Only a limited number of waterfowl hunters can be contacted, therefore, your response is urgently needed.

Please take a few minutes and fill out the parts of the questionnaire that apply to you. If you do not remember exact figures, please give your best estimate.

Drop the completed questionnaire in the mail. Postage is prepaid.

Yours for better waterfowling.

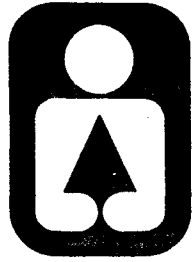
Sincerely,

James H. Moak, Chief  
Division of Wildlife Resources

Enclosure

Figure 2. The letter that accompanied the first mailing of the questionnaire.

Illinois



Department of Conservation

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LINCOLN TOWER PLAZA • 524 SOUTH SECOND STREET • SPRINGFIELD 62701-1787  
CHICAGO OFFICE • ROOM 4-300 • 100 WEST RANDOLPH 60601  
MARK FRECH, DIRECTOR

Dear Fellow Sportsman:

Recently we mailed you a Waterfowl Hunting Questionnaire, and requested that you fill out and return it as soon as possible. We have not received your form at this time -- perhaps because you have misplaced the questionnaire or haven't found time to complete it and return it to us.

We are enclosing another questionnaire which we hope you will complete and return to us. If you have already returned a questionnaire, please destroy this one. The information supplied by you and other waterfowl hunters being sampled will be of great value to the Conservation Department in better directing the management of Illinois' waterfowl resources.

Please fill out the questionnaire completely and return it even if you did not hunt waterfowl, or were not successful.

Postage is prepaid for returning the completed questionnaire. Your prompt attention will be sincerely appreciated.

Thank you.

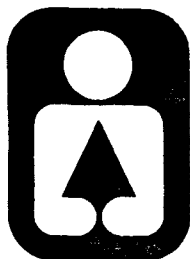
Sincerely,

James H. Moak, Chief  
Division of Wildlife Resources

Enclosure

Figure 3. The letter that accompanied the second mailing (first follow-up) of the questionnaire.

Illinois



# Department of Conservation

life and land together

LINCOLN TOWER PLAZA • 524 SOUTH SECOND STREET • SPRINGFIELD 62701-1787  
CHICAGO OFFICE • ROOM 4-300 • 100 WEST RANDOLPH 60601  
MARK FRECH, DIRECTOR

Dear Fellow Sportsman:

This letter is to remind you that we still would like to receive a report of your waterfowl hunting activities for the past season. We don't like to keep bothering you, but this information is very important which only you can supply.

Another copy of the questionnaire is enclosed. We hope you will complete it and return it as soon as possible. If you have already returned a questionnaire, please destroy this one. Your response is needed--even though you did not hunt waterfowl or had an unsuccessful season.

Postage is prepaid for returning the questionnaire. Just fill it out and drop in the mail. Please help us complete this survey by sending your questionnaire now. Your prompt attention will be greatly appreciated.

Thank you.

Sincerely,

Jim Moak, Chief  
Division of Wildlife Resources

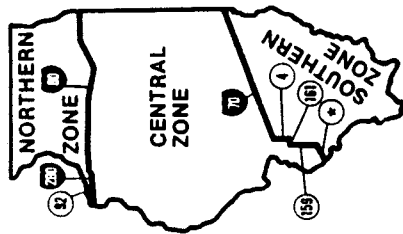
Enclosure

Figure 4. The letter that accompanied the third mailing (second follow-up) of the questionnaire.

**IL 422-0582**

### Season Totals

Figure 5. The preseason notice that was sent to persons on the mailing list for the Illinois Waterfowl Hunting Questionnaire.



# 1987 WATERFOWL HUNTING INFORMATION



## SPECIAL GOOSE ZONES

Tri-County Zone: Fulton (Buckheart, Canton, Cass, Deerfield, Fairview, Farmington, Joshua, Orion, and Putnam Townships, and that portion of Banner Township bounded on the north by Illinois-9 and on the east by US-24), Henry (Alba, Annawan, Atkinson, and Cornwall Townships), and Knox Counties  
Southern Illinois Quota Zone: Alexander, Jackson, Union, and Williamson Counties  
Rend Lake Quota Zone: Franklin and Jefferson Counties

**NONTOXIC SHOT ZONES** — Refer to 1987 Waterfowl Hunting Information brochure for complete listing and description of zones.

## LICENSES, STAMPS, AND PERMITS

Hunters must have a current, valid license and Federal and State Migratory Waterfowl Hunting Stamps in their possession at all times when afield. Please refer to 1987 Illinois Hunting Information brochure for exemptions and further information.

Public Waterfowl Hunting Area Permit..... Duck \$ 6.00  
Goose \$15.00

Federal Migratory Stamp.....\$10.00

## POINT SYSTEM

Canvasbacks may not be hunted. Bag limits on ducks are established by the Point System. Point values are:

- 100 Points — Black duck, mallard hen.
- 70 Points — Redhead, wood duck, hooded merganser.
- 35 Points — Mallard drake, ringneck, pintail, all other species not listed in other point categories.
- 20 Points — Blue-winged teal, green-winged teal, cinnamon teal, gadwall, shoveler, scaup, wigeon, all other mergansers except hooded.

The daily bag limit is reached when the point value equals or exceeds 100 points. The possession limit cannot exceed two days' bag limits.

## GOOSE LIMITS

The daily bag of geese is five per day, which may not include more than two Canada geese or their subspecies and two white-fronted geese in all areas except the Tri-County Zone where the limit is one Canada goose or its subspecies. The possession limit is ten, which may not include more than four Canada geese or subspecies, and four white-fronted geese.

Refer to the 1987 Waterfowl Hunting Information brochure for a summary of State and Federal regulations. NOTE: Each hunter should also consult Title 50, Code of Federal Regulations, Part 20, and Chapter 61 of the Illinois Revised Statutes for a complete listing of regulations, or talk with a local Conservation Police Officer.

**Target Illinois Poachers** If you see a violation report it.  
Call toll-free 1-800-252-0163.

Illinois Department of Conservation • Division of Wildlife Resources  
Lincoln Tower Plaza • 524 S. 2nd Street • Springfield, IL 62706 • 217/782-6384

The Department of Conservation does not discriminate on the basis of race, color, sex, national origin, age or handicap in admission to, or treatment or employment in programs or activities in compliance with the Illinois Human Rights Act. The Illinois Department of Conservation is an equal opportunity employer. The Equal Opportunity Act of 1973, as amended, and the U.S. Constitution. The Equal Opportunity Officer is responsible for compliance and may be reached at (217) 782-7656.

Printed by Authority of the State of Illinois 544-587

**TEAL SEASON:** September 5-13. Shooting hours 7 am - 4 pm.  
**Daily bag limit** 4 blue-winged and/or green-winged teal.

SPECIES	DATES (Inclusive)	HOURS	DAILY LIMIT	POSSESSION LIMIT
Ducks	Oct. 14-Nov. 22, 1987 (North) Oct. 22-Nov. 30, 1987 (Central) Oct. 29-Dec. 7, 1987 (South)	Half hour before sunrise to sunset	See Section On Point System	30
Coots			15	
Blue, Snow, White-Fronted Geese & Brant				
Canada Geese (All areas except those listed below)	Oct. 14-Nov. 22, 1987 (North) Oct. 22-Nov. 30, 1987 (Central) Nov. 16-Dec. 25, 1987 (South)	Half hour before sunrise to sunset	5, only 2 Canada geese and 2 white-fronted geese.	10, only 4 Canada geese and 4 white-fronted geese.
All Geese (Rend Lake Quota Zone)	Nov. 16-Jan. 4, 1988 or when quota of 7,900 Canada geese is reached	Half hour before sunrise to 3 p.m.		
All Geese (Southern Illinois Quota Zone)	Nov. 16, 1987-Jan. 4, 1988, or when quota of 26,300 Canada geese is reached	Sunrise to 3 p.m.		
Canada Geese (Tri-County Zone)	Oct. 22-Nov. 20, 1987	Half hour before sunrise to sunset	5, only 1 Canada goose and 2 white-fronted geese.	

\* Modoc Ferry route to Randolph County Hwy 12 to Illinois 159.

Figure 6. The waterfowl hunting regulations that were in effect in Illinois in 1987.



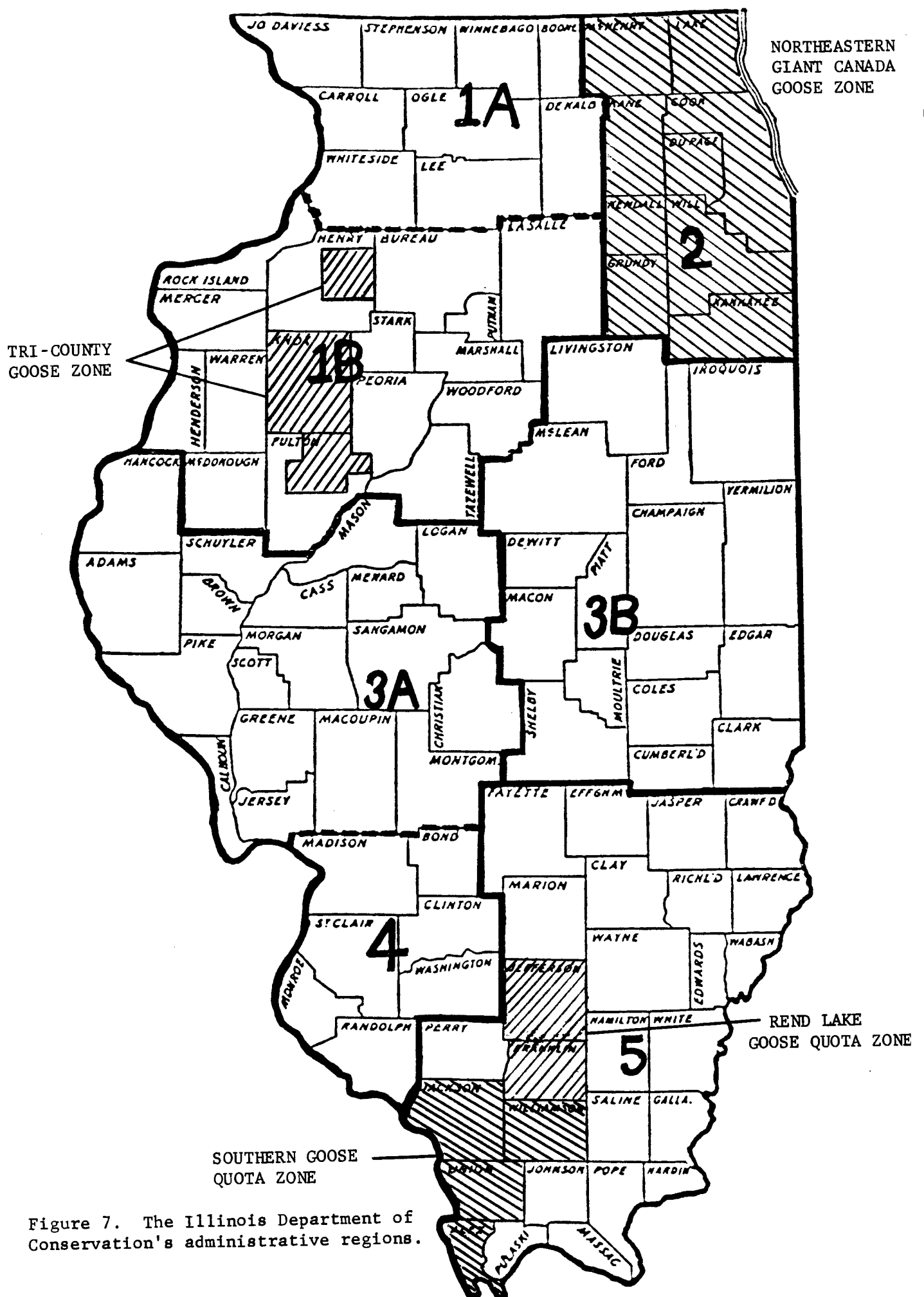


Figure 7. The Illinois Department of Conservation's administrative regions.

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